



MINI-SYMPOSIUM ON QUANTUM COMPUTING

August 20, 2004, 1 p.m. to 7 p.m.

National High Magnetic Field Laboratory
Room B-101

Agenda

FRIDAY

- 12:58 p.m. Australian contingent arrives at the Tallahassee Regional Airport. Van will pick them up and bring them to the laboratory.
- 1:30 p.m. Coffee
- 1:45 p.m. Opening Remarks
Greg Boebinger – NHMFL
David VanWinkle – FSU, Department of Physics
Naresh Dalal – FSU, Department of Chemistry
Stephan von Molnár – FSU, MARTECH
- 2:00 p.m. Bob Clark – University of New South Wales
Overview: summary of key progress in solid state QC (excluding superconductors) around the world, and which gives a sense of the recent history
- 2:45 p.m. Andrew Dzurak – University of New South Wales
P:Si Qubits
- 3:30 p.m. Jeremy O'Brien – University of Queensland
Encoding and processing quantum information in photons
- 4:15 p.m. Coffee Break
- 4:30 p.m. Nick Bonesteel – Florida State University
Quantum computing with spin-orbit coupling
- 5:15 p.m. Irinel Chiorescu – Michigan State University
Coherent dynamics of a flux qubit coupled to a harmonic oscillator
- 6:00 p.m. Steve Hill – University of Florida
Quantum coherence in an exchange-coupled dimer of single-molecule magnets
- 6:45 p.m. Hans Van Tol – NHMFL
EPR, ENDOR, and DNP of solid state spin systems with long relaxation rates: Si:P and N@C60
- 7:15 p.m. Discussion and Dinner at the FSU Don Veller Seminole Golf Course & Club

SATURDAY

- 8:40 a.m. Australian contingent leaves from Airport